

Bring Technology to Life



## Human CYP2C19 Genotyping Detection Kit

(PCR-Melting Curve Method)

CYP2C19 is involved in the biotransformation and hepatic metabolism of at least 10% of commonly prescribed and clinically important drugs, such as antiplatelet agents (clopidogrel), antifungal drugs (voriconazole), some proton pump inhibitors (omeprazole) and antidepressants (citalopram). Genetic polymorphisms have a determined influence on the in vivo enzymatic activity of CYP2C19.

Tianlong Human CYP2C19 Genotyping Detection Kit adopts the principle of PCR melting curve method to detect the genetic polymorphism of the most common variants in the CYP2C19 gene, including CYP2C19\*2 (c.681 G>A), CYP2C19\*3 (c.636 G>A), CYP2C19\*17 (c.-806 C>T) as well as the wild-type genotype (CYP2C19\*1) in specimens. It can guide the personalized use of clopidogrel and other drugs.

### FEATURES



#### Reliable Detection

Covering the most common polymorphic variants in CYP2C19, i.e. CYP2C19\*2 (c.681 G>A), CYP2C19\*3 (c.636 G>A), CYP2C19\*17 (c.-806 C>T)



#### Excellent Performance

Based on PCR melting curve method, operating process is easier and multiple genotyping test results can be interpreted at one time.



#### Providing Integrated Solution

Providing integrated solution including reagents and instruments to optimize your workflow



#### Internal Control

The use of internal control can effectively prevent false negative results



#### High Precision

The T<sub>m</sub> value range is  $\leq 1.5^{\circ}\text{C}$



#### High Compatibility

Validated on melting curve analysis systems with FAM and ROX fluorescence channels



#### More Accessible

CE marked, accessible for more countries



TARGET GENE LOCI AND PHENOTYPES

CYP2C19			Diploypes	Phenotypes
c.681 G>A	c.636 G>A	c.-806 C>T		
GG	GG	TT	*17/*17	Ultrarapid metabolizer (UM)
GG	GG	CT	*1/*17	Rapid metabolizer (RM)
GG	GG	CC	*1/*1	Normal metabolizer (NM)
GA	GG	CC	*1/*2	Intermediate metabolizer (IM)
GG	GA	CC	*1/*3	
GA	GG	CT	*2/*17	
GA	GG	TT	*2/*17	
GG	GA	CT	*3/*17	
GG	GA	TT	*3/*17	Poor metabolizer (PM)
AA	GG	CC	*2/*2	
GG	AA	CC	*3/*3	
GA	GA	CC	*2/*3	
AA	GA	CC	*2/*3	
GA	AA	CC	*2/*3	
AA	AA	CC	*2/*3	

CLINICAL SIGNIFICANCE

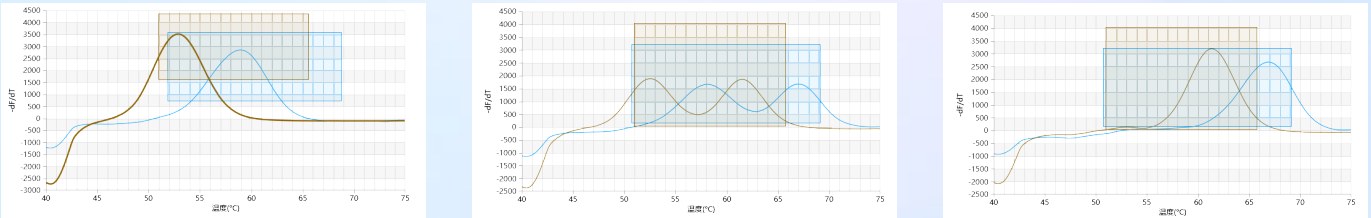


Suitable for patients taking clopidogrel, voriconazole, proton pump inhibitors or antidepressants, guiding rational medication to improve clinical efficacy and prevent the occurrence of adverse drug effects.

ORDERING INFORMATION

Product Name	Human CYP2C19 Genotyping Detection Kit (PCR-Melting Curve Method)	
Cat.No	P128H	P153H
Specification	24T/Kit	48T/Kit
Specimen	EDTA anticoagulated whole blood	
Target Gene Loci	c.681 G>A (CYP2C19*2) c.636 G>A (CYP2C19*3) c.-806 C>T (CYP2C19*1) Wild type (CYP2C19*1)	
Storage & Validity	-25℃~-15℃ for 12 months	
Applicable Equipment	Instruments with FAM and ROX fluorescence channels, such as Tianlong Gentier Real-time PCR Systems, SLAN-96P real time PCR system, Applied Biosystems™ 7500 Real-Time PCR Systems.	

GENE POLYMORPHISM



Homozygous mutations                      Heterozygous mutations                      Wild-type

\*The diagram shows only partial detection results.

ASSAY WORKFLOW



Version 2.0

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